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BUREAU VERITAS SHENZHEN CO., LTD

DONGGUAN BRANCH

Manager, Analytical Lab

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TEST REPORT

Applicant Name:	SHANTOU CITY CHENGHAI DISTRICT DINOSAURS'ISLAND TOYS INDUSTRIAL CO.,LTD
Applicant Address:	DONGHU INDUSTRIAL,FENGXIANG STREET,CHENGHAI DISTRICT SHANTOU CITY GUANGDONG CHINA
Date of Submission:	MAY 20, 2021
Test Period:	MAY 20, 2021 TO JUN 16, 2021
Sample Description:	ANIMAL TOY
Style No. : Country of origin: Sample Size:	SEE ATTACHMENT CHINA 1



RT/Tina Ye REMARK

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ATTACHMENT:

Style No. :

RS61-100, RS6121,RS6121A,RS6122,RS6122A,RS6123,RS6123A,RS6124,RS6124A,RS6125,RS6125A, RS6126,RS6126A,RS6127,RS6128,RS6129,RS6129A,RS6131,RS6132,RS6133,RS6133A,RS6133B,RS6134, RS6134A,RS6134B,RS6135,RS6135A,RS6136,RS6136A,RS6137A,RS6137B,RS6138A,RS6138B,RS6139, RS6139A,RS6151,RS6152,RS6153,RS6154,RS6155A,RS6155B,RS6156,RS6156A,RS6157,RS6158, RS6158A,RS6159,RS6159A,RS6161,RS6162,RS6163,RS6163A,RS6163B,RS6164,RS6164A,RS6164B, RS6165,RS6166,RS6167A,RS6167B,RS6168A,RS6168B,RS6169A,RS6171,RS6171A,RS6172,RS6172A, RS6173,RS6173A,RS6174,RS6174A,RS6175,RS6176,RS6177,RS6177A,RS6178,RS6178A,RS6179,RS6180, RS6181,RS6182,RS6183,RS6184,RS6185,RS6186,RS6187,RS6188A,RS6188A,RS6189A,RS6190,RS6191, RS6192,RS6193,RS6194,RS6195,RS6196,RS6197,RS001-1,RS001-2,RS001-3,RS001-4,RS002-1,RS002-2, RS003-1,RS003-2,RS004-1,RS004-2,RS004-3,RS004-4,RS004-5,RS004-6,RS005-1,RS005-2,RS005-3, RS006-1,RS006-2,RS007-1,RS007-2,RS007-3,RS008-1,RS008-2,RS008-3,RS009-1,RS009-2,RS009-3, RS009-E-COMMERCE VERSION,RS010,RS011,RS012-1,RS012-2,RS012-3,RS012-4,RS012-5,RS012-6, RS013-1,RS013-10,RS013-2,RS013-3,RS013-4,RS013-5,RS013-6,RS013-7,RS013-8,RS013-9,RS014, RS61-555Y,RS015-1,RS015-2,RS015-3,RS015-4,RS016-1,RS016-2,RS016-3,RS016-4,RS017-1,RS017-2, RS017-3,RS018,RS019,RS020

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION	REMARK
Heavy Metals and Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment	PASS	-
(RoHS)		
Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission	PASS	-
Delegated Directive (EU) 2015/863		



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Photo of the Submitted Sample





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Component Description List

Test Item(s)	Description	Location	Photo
1001	Red PVC	Foreleg	
1002	Dark red plastic	Shell	
1003	Red PVC	Head	
1004	Dark red PVC	Neck	
1005	Red PVC	Wings	
1006	Black PVC	Head plug	
1007	White plastic	Tooth/neck	
1008	Dark purple plastic	Tongue 舌头	30
1009	Silvery metal	Battery box contact chip	
1010	Silvery metal	Battery box spring	
I011	Transparent plastic	Screw gasket	
1012	Transparent white solid	Glue	
1013	Silvery metal	Metal block	
I014	Brown plastic	Nut cover	
I015	Silvery solder	Solder	



Test Item(s)	Description	Location	Photo
1016	Silvery metal	Tooth fixing shaft	
I017	Silvery metal	Tooth fixing shaft spring	
1018	Transparent brown plastic	LED light lampshade	18
1019	Red brown plastic	Plastic parts	
1020	Taupe plastic	Tail expansion link	
l021	Silvery metal	Tail expansion link	19 20 21
1022	Red plastic	Wheel	
1023	Silvery metal	Wheel axle	22
1024	Silvery metal	Torsional spring	
1025	Transparent plastic	Hind leg inner plastic parts	24
1026	White soft plastic	Atomizer plate case	
1027	Silvery metal	Atomizer plate	27
1028	White /black ceramic	Atomizer plate	
1029	White solid	Glue	28 29 26



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Test Item(s)	Description	Location	Photo
1030	Transparent red plastic	LED light	30-31
1031	Silvery metal	LED light pin	50-51
1032	Green/white printed brown PCB	LED light PCB	32
1033	Transparent plastic	LED light	
1034	Transparent soft plastic	Sleeve	34
1035	Silvery metal	Toggle switch frame	
1036	Orange red plastic	Toggle switch button	35
1037	Brown plastic	Toggle switch base	36
1038	Silvery metal	Toggle switch slip sheet	
1039	Silvery metal	Toggle switch spring	40
1040	Silvery metal	Toggle switch pin	39 1 38
1041	Black plastic	Infrared lamp	



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Test Item(s)	Description	Location	Photo
1042	Translucent white plastic	Tact switch button	
1043	Black soft plastic	Tact switch button bottom	
1044	Green/white printed brown PCB	Tact switch PCB	42-43
1045	Black IC body	IC	
1046	Black audion body	Audion	
1047	Green/white printed brown PCB	Min PCB	45 46
1048	White printed green plastic	Electrolytic capacitor jacket	
1049	Silvery metal	Electrolytic capacitor shell	
1050	Black soft plastic	Electrolytic capacitor plug	48-54
1051	Brown paper with liquid	Electrolytic capacitor filler	
1052	Grey foil	Electrolytic capacitor filler	
1053	Silvery grey foil	Electrolytic capacitor filler	
1054	Silvery metal	Electrolytic capacitor pin	55-57
1055	Black soft plastic	Inductor jacket	
1056	Dark grey inductor body	Inductor	
1057	Coppery metal	Inductor coil	
1058	Black solid	Glue	
1059	Green PCB	Speaker PCB	
1060	Silvery metal	Speaker case	58 60



Test Item(s)	Description	Location	Photo
1061	Black plastic	Speaker O ring	
1062	Black plastic	Speaker film	64
1063	Coppery metal	Speaker coil	63
1064	Silvery magnetic	Speaker magnetic	
1065	Green/white printed yellow PCB	Main PCB	
1066	Black solid	Heat sealing glue	66
1067	Dark brown capacitor	Capacitor	65
1068	Black plastic	IC body	
1069	Silvery metal	IC pin	
1070	White printed black plastic	Electrolytic capacitor jacket	69
1071	Black printed yellow PVC	Wire jacket	
1072	Black printed white PVC	Wire jacket	
1073	Red PVC	Wire jacket	
1074	Green PVC	Wire jacket	
1075	Blue PVC	Wire jacket	74 77
1076	Black printed dark red PVC	Wire jacket	76 75 82-83
1077	White PVC	Wire jacket	
1078	Light red PVC	Wire jacket	
1079	Black PVC	Wire jacket (thick)	79
1080	Yellow PVC	Wire jacket	78, 84 ⁷⁷ 71 80
1081	Black PVC	Wire jacket (thin)	
1082	Red PVC	Wire jacket (thin)	
1083	Coppery metal	Wire core	



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Test Item(s)	Description	Location	Photo
1084	Silvery metal	Wire core	74 72 76 75 82-83 81 73 78, 84 77 71 80
1085	Green brown plastic	Gear case	
1086	Red brown plastic	Motor case	88 86 85
1087	White plastic	Gear	
1088	Translucent white plastic	Gear axle	
1089	Transparent plastic	Gear axle	
1090	Grey brown plastic	Gear case	90
1091	Grey plastic	Connector	87 92 91
1092	Beige yellow plastic	Ball	
1093	Silvery metal	Axle	



Test Item(s)	Description	Location	Photo
1094	White grey metal	Motor case	
1095	Golden metal	Motor bearing	95
1096	Black magnet	Motor magnet	
1097	Grey metal	Motor U iron	94 96 97
1098	Beige white plastic	Motor endbell	
1099	Brown resistor body	Motor resistor	99 100
I100	Silvery metal	Motor resistor pin	98
l101	Golden metal	Motor pin	
1102	Coppery metal	Motor brush	
1103	Silvery metal	Motor shaft	
l104	Silvery metal	Motor metal plate	
l105	Golden metal	Motor O ring	106
l106	Coppery metal	Motor O ring	109-110 108
l107	Coppery metal	Motor coil	104 111
l108	Coppery metal	Motor steering gear	
l109	Red paper	Motor steering gear	105
1110	Black /white ceramic	Motor steering gear	103 107
1111	Beige plastic	Motor steering gear	
l112	White plastic	Motor insulation board	
l113	Grey metal	Small motor bearing	
1114	White plastic	Small motor endbell	



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Test Item(s)	Description	Location	Photo
1115	Light brown plastic	Nut cover	
1116	Transparent orange plastic	Eyes	116
l117	Transparent yellow plastic	LED light	
l118	Grey plastic	Tail expansion link	
1119	Light grey plastic	Tail expansion link	117 118 119
l120	Coppery metal with adhesive	Coppery foil	2012
1121	Green/white printed light brown PCB	Tact switch PCB	
1122	Black plastic	Toggle switch button	122
1123	Green plastic	Speaker case	
1124	Silvery metal	Speaker case	125



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Test Item(s)	Description	Location	Photo
1125	Green solid	Heat sealing glue	
1126	Dark brown plastic	Motor case	126 127
1127	Light brown plastic	Motor case	
l128	Blue plastic	Shell	
1129	Blue PVC	Head	
l130	Blue PVC	Neck	O The sector of the
l131	Blue PVC	Wings	128
1132	Blue PVC	Foreleg	132
1133	Blue plastic	Wheel	
1134	Green plastic	Nut cover	



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Test Item(s)	Description	Location	Photo
1135	White plastic	Plastic parts	
1136	Cyan plastic	Gear case	
1137	Grey plastic	Gear case	136 142
1138	Olive green plastic	Gear case	
1139	Grey green plastic	Gear case	
1140	White plastic	Ball	180
1141	Dark orange plastic	Connector	
1142	Liver-coloured plastic	Plastic parts	139
l143	Tan plastic	Tail expansion link	140 1 141
1144	Khaki plastic	Shell	
1145	Khaki PVC	Neck	
l146	Khaki PVC	Foreleg	144 145
1147	Dark khaki plastic	Wheel	



Test Item(s)	Description	Location	Photo
l148	Yellow plastic	Terminal socket	
1149	Light green plastic	Terminal socket	148
l150	Blue plastic	Terminal socket	
l151	Black plastic	Terminal socket	
l152	Red plastic	Terminal socket	149 151 152
l153	Beige white plastic	Terminal socket	
1154	Yellow plastic	Terminal	
l155	Light green plastic	Terminal	154
l156	Blue plastic	Terminal	
l157	Red plastic	Terminal	
1158	White plastic	Terminal	157 158 153
1159	Grey metal	Toggle switch frame	
I160	White printed black soft plastic	Sleeve	159
l161	Army green plastic	Gear case	



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Test Item(s)	Description	Location	Photo
l162	Dark green plastic	Shell	
I163 I164	Dark green PVC Dark green PVC	Neck Foreleg	
1165	Black plastic	LED light lampshade	
1166	Green plastic	Wheel	
l167	Grass green plastic	Gear case	169
l168	Orange brown plastic	Gear case	
l169	Mouse grey plastic	Gear case	108
l170	White plastic	Motor case	



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Test Item(s)	Description	Location	Photo
l171	Brown plastic	Shell	
I172 I173	Brown PVC Brown PVC	Neck Foreleg	173
1174	Dark brown plastic	Wheel	
l175	Dark green plastic	Gear case	
l176	Dark yellow plastic	Gear case	
l177	Chocolate plastic	Gear case	
l178	Beige grey plastic	Motor case	
l179	Light brown plastic	Shell	
l180	Light brown PVC	Foreleg	
1181	Indian red plastic	Tongue	17



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Test Item(s)	Description	Location	Photo
1182	Orange brown plastic	Wheel	
l183	Dark brown plastic	Shell	
l184	Dark brown PVC	Foreleg	183
I185	Black plastic	LED light	185
1186	Transparent red plastic	Eyes	186



Test Item(s)	Description	Location	Photo
1187	Green /white printed brown PCB	Main PCB	
1188	Green printed light brown PCB	LED light PCB	183
l189	Black magnet	Speaker magnet	
1190	Silvery metal	Speaker magnet holder	190
1191	Silvery metal	Speaker magnet gasket	291
1192	Green /white printed brown PCB	Remote control PCB	193
1193	Black IC	Remote control PCB	192



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Test Item(s)	Description	Location	Photo
l194	Silvery white metal	Big screw	
l195	Silvery white metal	Middle screw	194 195 196
l196	Silvery white metal	Small screw	de also t
l197	Silvery white metal	Screw	2 Ju 17
l198	Silvery white metal	Short screw	199 197 197 198
l199	Silvery metal	Big screw	
1200	Silvery metal	Small screw	200 201
1201	Silvery metal	Nut	



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TEST RESULT

1.1. Screening Test for the Certain Hazardous Substances of RoHS

- Heavy Metal (Lead, Cadmium, Mercury, Chromium) Content Test

- Bromine Content Test

<u>Test Method</u>: IEC62321-3-1:2013, and Quantification Analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test Item(s)		Result (mg/kg)			Conclusion	
1001	BL	BL	BL	BL	BL	PASS
1002	BL	BL	BL	BL	BL	PASS
1003	BL	BL	BL	BL	BL	PASS
1004	BL	BL	BL	BL	BL	PASS
1005	BL	BL	BL	BL	BL	PASS
1006	BL	BL	BL	BL	BL	PASS
1007	BL	BL	BL	BL	BL	PASS
1008	BL	BL	BL	BL	BL	PASS
1009	BL	BL	BL	IN	N.A.	-
1010	BL	BL	BL	BL	N.A.	PASS
1011	BL	BL	BL	BL	BL	PASS
1012	BL	BL	BL	BL	BL	PASS
1013	BL	BL	BL	BL	N.A.	PASS
1014	BL	BL	BL	BL	BL	PASS
l015	BL	BL	BL	BL	N.A.	PASS
1016	BL	BL	BL	BL	N.A.	PASS
1017	BL	BL	BL	BL	N.A.	PASS
1018	BL	BL	BL	BL	BL	PASS
1019	BL	BL	BL	BL	BL	PASS
1020	BL	BL	BL	BL	BL	PASS
1021	BL	BL	BL	BL	N.A.	PASS
1022	BL	BL	BL	BL	BL	PASS
1023	BL	BL	BL	BL	N.A.	PASS
1024	BL	BL	BL	BL	N.A.	PASS
1025	BL	BL	BL	BL	BL	PASS
1026	BL	BL	BL	BL	BL	PASS
1027	BL	BL	BL	IN	N.A.	-
1028	OL	BL	BL	BL	BL	EXEMPTED
1029	BL	BL	BL	BL	BL	PASS
1030	BL	BL	BL	BL	IN	-

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test Item(s)	Result (mg/kg)				Conclusion	
1031	BL	BL	BL	BL	N.A.	PASS
1032	BL	BL	BL	BL	BL	PASS
1033	BL	BL	BL	BL	IN	-
1034	BL	BL	BL	BL	BL	PASS
1035	BL	BL	BL	BL	N.A.	PASS
1036	BL	BL	BL	BL	BL	PASS
1037	BL	BL	BL	BL	BL	PASS
1038	BL	BL	BL	BL	N.A.	PASS
1039	BL	BL	BL	BL	N.A.	PASS
1040	BL	BL	BL	BL	N.A.	PASS
1041	BL	BL	BL	BL	IN	-
1042	BL	BL	BL	BL	BL	PASS
1043	BL	BL	BL	BL	BL	PASS
1044	BL	BL	BL	BL	BL	PASS
1045	BL	BL	BL	BL	BL	PASS
1046	BL	BL	BL	BL	BL	PASS
1047	BL	BL	BL	BL	BL	PASS
1048	BL	BL	BL	BL	BL	PASS
1049	BL	BL	BL	BL	N.A.	PASS
1050	BL	BL	BL	BL	BL	PASS
1051	BL	BL	BL	BL	BL	PASS
1052	BL	BL	BL	BL	BL	PASS
1053	BL	BL	BL	BL	BL	PASS
1054	BL	BL	BL	BL	N.A.	PASS
1055	BL	BL	BL	BL	BL	PASS
1056	BL	BL	BL	BL	BL	PASS
1057	BL	BL	BL	BL	N.A.	PASS
1058	BL	BL	BL	BL	BL	PASS
1059	BL	BL	BL	BL	IN	-
1060	BL	BL	BL	IN	N.A.	-
1061	BL	BL	BL	BL	IN	-
1062	BL	BL	BL	BL	BL	PASS
1063	BL	BL	BL	BL	N.A.	PASS
1064	BL	BL	BL	BL	N.A.	PASS
1065	BL	BL	BL	BL	IN	-
1066	BL	BL	BL	BL	BL	PASS
1067	OL	BL	BL	BL	BL	EXEMPTED
1068	BL	BL	BL	BL	IN	-

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test Item(s)		Result (mg/kg)				Conclusion
1069	BL	BL	BL	BL	N.A.	PASS
1070	BL	BL	BL	BL	BL	PASS
1071	BL	BL	BL	BL	BL	PASS
1072	BL	BL	BL	BL	BL	PASS
1073	BL	BL	BL	BL	BL	PASS
1074	BL	BL	BL	BL	BL	PASS
1075	BL	BL	BL	BL	BL	PASS
1076	BL	BL	BL	BL	BL	PASS
1077	BL	BL	BL	BL	BL	PASS
1078	BL	BL	BL	BL	BL	PASS
1079	BL	BL	BL	BL	BL	PASS
1080	BL	BL	BL	BL	BL	PASS
1081	BL	BL	BL	BL	BL	PASS
1082	BL	BL	BL	BL	BL	PASS
1083	BL	BL	BL	BL	N.A.	PASS
1084	BL	BL	BL	BL	N.A.	PASS
1085	BL	BL	BL	BL	BL	PASS
1086	BL	BL	BL	BL	BL	PASS
1087	BL	BL	BL	BL	BL	PASS
1088	BL	BL	BL	BL	BL	PASS
1089	BL	BL	BL	BL	BL	PASS
1090	BL	BL	BL	BL	BL	PASS
1091	BL	BL	BL	BL	BL	PASS
1092	BL	BL	BL	BL	BL	PASS
1093	BL	BL	BL	IN	N.A.	-
1094	BL	BL	BL	BL	N.A.	PASS
1095	BL	BL	BL	BL	N.A.	PASS
1096	BL	BL	BL	IN	N.A.	-
1097	BL	BL	BL	BL	N.A.	PASS
1098	BL	BL	BL	BL	BL	PASS
1099	BL	BL	BL	BL	BL	PASS
l100	BL	BL	BL	BL	N.A.	PASS
l101	BL	BL	BL	BL	N.A.	PASS
l102	BL	BL	BL	BL	N.A.	PASS
l103	BL	BL	BL	BL	N.A.	PASS
l104	BL	BL	BL	IN	N.A.	-
l105	BL	BL	BL	BL	N.A.	PASS
l106	BL	BL	BL	BL	N.A.	PASS

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test Item(s)	Result (mg/kg)					Conclusion
1107	BL	BL	BL	BL	N.A.	PASS
l108	BL	BL	BL	BL	N.A.	PASS
l109	BL	BL	BL	BL	BL	PASS
l110	BL	BL	BL	BL	BL	PASS
1111	BL	BL	BL	BL	BL	PASS
l112	BL	BL	BL	BL	BL	PASS
l113	BL	BL	BL	BL	BL	PASS
1114	BL	BL	BL	BL	BL	PASS
l115	BL	BL	BL	BL	BL	PASS
l116	BL	BL	BL	BL	BL	PASS
l117	BL	BL	BL	BL	IN	-
l118	BL	BL	BL	BL	BL	PASS
l119	BL	BL	BL	BL	BL	PASS
l120	BL	BL	BL	BL	N.A.	PASS
l121	BL	BL	BL	BL	BL	PASS
l122	BL	BL	BL	BL	BL	PASS
l123	BL	BL	BL	BL	BL	PASS
l124	BL	BL	BL	BL	N.A.	PASS
l125	BL	BL	BL	BL	BL	PASS
l126	BL	BL	BL	BL	BL	PASS
l127	BL	BL	BL	BL	BL	PASS
l128	BL	BL	BL	BL	BL	PASS
l129	BL	BL	BL	BL	BL	PASS
l130	BL	BL	BL	BL	BL	PASS
l131	BL	BL	BL	BL	BL	PASS
l132	BL	BL	BL	BL	BL	PASS
l133	BL	BL	BL	BL	BL	PASS
l134	BL	BL	BL	BL	BL	PASS
l135	BL	BL	BL	BL	BL	PASS
l136	BL	BL	BL	BL	BL	PASS
l137	BL	BL	BL	BL	BL	PASS
l138	BL	BL	BL	BL	BL	PASS
l139	BL	BL	BL	BL	BL	PASS
l140	BL	BL	BL	BL	BL	PASS
l141	BL	BL	BL	BL	BL	PASS
l142	BL	BL	BL	BL	BL	PASS
l143	BL	BL	BL	BL	BL	PASS
1144	BL	BL	BL	BL	BL	PASS

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test Item(s)	Result (mg/kg)					Conclusion
1145	BL	BL	BL	BL	BL	PASS
l146	BL	BL	BL	BL	BL	PASS
l147	BL	BL	BL	BL	BL	PASS
l148	BL	BL	BL	BL	IN	-
l149	BL	BL	BL	BL	IN	-
l150	BL	BL	BL	BL	IN	-
l151	BL	BL	BL	BL	IN	-
l152	BL	BL	BL	BL	IN	-
l153	BL	BL	BL	BL	IN	-
l154	BL	BL	BL	BL	BL	PASS
l155	BL	BL	BL	BL	BL	PASS
l156	BL	BL	BL	BL	BL	PASS
l157	BL	BL	BL	BL	BL	PASS
l158	BL	BL	BL	BL	BL	PASS
l159	BL	BL	BL	BL	N.A.	PASS
l160	BL	BL	BL	BL	BL	PASS
l161	BL	BL	BL	BL	BL	PASS
l162	BL	BL	BL	BL	BL	PASS
l163	BL	BL	BL	BL	BL	PASS
l164	BL	BL	BL	BL	BL	PASS
l165	BL	BL	BL	BL	BL	PASS
l166	BL	BL	BL	BL	BL	PASS
l167	BL	BL	BL	BL	BL	PASS
l168	BL	BL	BL	BL	BL	PASS
l169	BL	BL	BL	BL	BL	PASS
1170	BL	BL	BL	BL	BL	PASS
l171	BL	BL	BL	BL	BL	PASS
1172	BL	BL	BL	BL	BL	PASS
1173	BL	BL	BL	BL	BL	PASS
l174	BL	BL	BL	BL	BL	PASS
l175	BL	BL	BL	BL	BL	PASS
1176	BL	BL	BL	BL	BL	PASS
1177	BL	BL	BL	BL	BL	PASS
l178	BL	BL	BL	BL	BL	PASS
l179	BL	BL	BL	BL	BL	PASS
l180	BL	BL	BL	BL	BL	PASS
l181	BL	BL	BL	BL	BL	PASS
1182	BL	BL	BL	BL	BL	PASS

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Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (Cr)	PBBs&PBDEs	
Test			Result (mg/kg))		Conclusion
ltem(s)			nesult (illy/kg)		
l183	BL	BL	BL	BL	BL	PASS
l184	BL	BL	BL	BL	BL	PASS
l185	BL	BL	BL	BL	IN	-
l186	IN	BL	BL	BL	BL	-
l187	BL	BL	BL	BL	BL	PASS
l188	BL	BL	BL	BL	BL	PASS
1189	BL	BL	BL	BL	N.A.	PASS
1190	BL	BL	BL	IN	N.A.	-
1191	BL	BL	BL	IN	N.A.	-
1192	BL	BL	BL	BL	BL	PASS
1193	BL	BL	BL	BL	BL	PASS
1194	BL	BL	BL	IN	N.A.	-
1195	BL	BL	BL	BL	N.A.	PASS
1196	BL	BL	BL	IN	N.A.	-
1197	BL	BL	BL	IN	N.A.	-
1198	BL	BL	BL	BL	N.A.	PASS
1199	BL	BL	BL	BL	N.A.	PASS
1200	BL	BL	BL	BL	N.A.	PASS
1201	BL	BL	BL	BL	N.A.	PASS

Remark:

- #According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) 28, 67 was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

- The above results was performed at a Bureau Veritas CPS approved subcontract lab.



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Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %

2. "OL" denotes "over limit"; "BL" denotes "below limit"; "N.A." denotes "Not Applicable"; "IN" denotes "Inconclusive", thus further confirmation test was conducted, results are listed in 1.2 and 1.3.
2. PRRs & PRDEs were evaluated by Bromine content of XRE screeping.

3. PBBs&PBDEs were evaluated by Bromine content of XRF screening.

4. According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound". Test Item(s) < I028,I067> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.

5. XRF screening limits for different materials:

Element	Polymers	Metal	Composite material	
Pb	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(500-3σ) <x<(1500+3σ) ≤OL</x<(1500+3σ) 	
Cd	BL≤(70-3σ) <x<(130+3σ)≤ ol<="" td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ ol<="" td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤></td></x<(130+3σ)≤>	BL≤(70-3σ) <x<(130+3σ)≤ ol<="" td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>	
Hg	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(700-3σ) <x<(1300+3σ) ≤OL</x<(1300+3σ) 	BL≤(500-3σ) <x<(1500+3σ) ≤OL</x<(1500+3σ) 	
Cr	BL≤(700-3σ)<Χ	BL≤(700-3σ)<Χ	BL≤(500-3σ)<Χ	
Br	BL≤(300-3σ)<Χ		BL≤(250-3σ)<Χ	



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1.2. Test for Heavy Metals

- Lead, Cadmium and Chromium Content Tests according to IEC 62321-5:2013.

- Mercury Content Test according to IEC 62321-4:2013/AMD1:2017.
- Chromium VI Content in Metal Test according to IEC 62321-7-1:2015.

- Chromium VI Content in Polymers and Electronic Test according to IEC 62321-7-2:2017.

Analyte	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium VI (Cr VI)	
Detection Limit	10	10	10	10 / Δ	Conclusion
Requirements	1000	100	1000	1000 / Negative	
Test Item(s)		Result	(mg/kg)		
1009	/	/	/	Negative	PASS
1027	/	/	/	Negative	PASS
1060	/	/	/	Negative	PASS
1093	/	/	/	Negative	PASS
1096	/	/	/	Negative	PASS
l104	/	/	/	Negative	PASS
l186	645	/	/	/	PASS
l190	/	/	/	Negative	PASS
l191	/	/	/	Negative	PASS
l194	/	/	/	Negative	PASS
l196	/	/	/	Negative	PASS
1197	/	/	/	Negative	PASS

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.

2. "N.D." = "Not Detected".

3. " Δ " = Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1)(less than 0.10µg/cm²). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 4(1)(greater than 0.13µg/cm²).



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1.3. Test for Flame Retardants

Test Method: IEC62321-6:2015, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

	Analyte		Re	esult (mg/k	(g)		Requirement
	Analyte	1030	1033	1041	1059	1061	(mg/kg)
	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
PBBs	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Conclusion	PASS	PASS	PASS	PASS	PASS	-



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	Analyte		Re	esult (mg/k	(g)		Requirement
	Analyte	1065	1068	l117	l148	l149	(mg/kg)
	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
PBBs	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Conclusion	PASS	PASS	PASS	PASS	PASS	-



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	Analyte		Re	esult (mg/k	(g)		Requirement
	Analyte	l150	l151	l152	l153	l185	(mg/kg)
	Monobromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
PBBs	Hexabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBBs < 1000
	Heptabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromobiphenyl	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBBs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Monobromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Dibromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tribromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Tetrabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Pentabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
PBDEs	Hexabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	Sum of PBDEs < 1000
	Heptabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	< 1000
	Octabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Nonabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Decabromodiphenyl Ether	N.D.	N.D.	N.D.	N.D.	N.D.	
	Sum of PBDEs	N.D.	N.D.	N.D.	N.D.	N.D.	
	Conclusion	PASS	PASS	PASS	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.

2. MDL= Detection Limit = 50mg/kg.

3. "N.D." = "Not Detected".



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2. <u>Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of</u> <u>Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its</u> <u>Amendments Commission Delegated Directive (EU) 2015/863</u>

Test Method: IEC 62321-8:2017, Analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Anoluto		Requirement		
Analyte	1001+1003+1004	1002+1007+1008	1005+1006+1026	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte		Requirement		
Analyte	1011+1014+1018	1012+1029+1058	1019+1020+1022	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analuta		Requirement		
Analyte	1025+1030+1033	1032+1044+1047	1034+1042+1043	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analyta		Requirement		
Analyte	1036+1037+1041	1048+1050+1055	1051+1109	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	70	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte		Requirement		
Analyte	1059+1065+1121	1061+1062+1068	1066+1125	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	1070+1071+1072	1073+1074+1075	1076+1077+1078	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	100	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	80	60	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyta	Result (mg/kg)			Requirement
Analyte	1079+1080+1081	1082+1129+1130	1085+1086+1087	(mg/kg)
Dibutyl phthalate (DBP)	60	70	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analyta	Result (mg/kg)			Requirement
Analyte	1088+1089+1090	1091+1092+1098	111+ 112+ 114	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	115+ 116+ 117	1118+1119+1122	1123+1126+1127	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte		Requirement		
	1128+1133+1134	131+ 132+ 145	1135+1136+1137	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	1138+1139+1140	1141+1142+1143	144+ 147+ 148	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analyte	Result (mg/kg)			Requirement
	1146+1160+1163	1149+1150+1151	1152+1153+1154	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	1155+1156+1157	1158+1161+1162	1164+1172+1173	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte		Requirement		
	1165+1166+1167	1168+1169+1170	171+ 174+ 175	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-

Analyte	Result (mg/kg)			Requirement
	1176+1177+1178	179+ 181+ 182	1183+1185+1186	(mg/kg)
Dibutyl phthalate (DBP)	N.D.	N.D.	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	220	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	-



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Analyta	Result	Requirement	
Analyte	l180+l184	l187+l188+l192	(mg/kg)
Dibutyl phthalate (DBP)	110	N.D.	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	N.D.	N.D.	1000
Benzyl butyl phthalate (BBP)	N.D.	N.D.	1000
Di-(iso-butyl) phthalate (DIBP)	N.D.	N.D.	1000
Conclusion	PASS	PASS	-

Note:

1. mg/kg = milligram per kilogram = ppm = part per million, 10 000 mg/kg = 1 %.

2. MDL= Detection Limit = 50mg/kg.

3. "N.D." = "Not Detected".

4. Results shown are of the total weight of mixed samples.

Remark:

- The above results was performed at a Bureau Veritas CPS approved subcontract lab.

*** End of Report ***